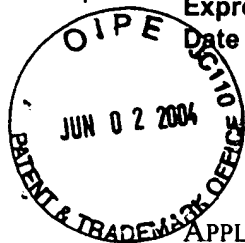


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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Smith, et al.  
SERIAL NUMBER: 10/797,302 EXAMINER : Not Yet Assigned  
FILING DATE: March 9, 2004 ART UNIT : Not Yet Assigned  
FOR: GLUCOSYLTRANSFERASE IMMUNOGENS

**Mail Stop Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL LETTER**

Transmitted herewith for filing in the present application are the following documents:

1. Information Disclosure Statement (2 pages), in duplicate;
2. Modified Form 1449/PTO (4 pages), in duplicate;
3. Return Postcard.

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 542-6000, Boston, Massachusetts.

The Commissioner is authorized to charge any fees that may be due, or to credit any overpayment, to the undersigned's account, Deposit Account No. 50-0311 Ref. No. 25669-019. A duplicate copy of this transmittal letter is enclosed herewith.

Respectfully submitted,

*Janine M. Susan*

Ingrid A. Beattie, Reg. No. 42,306

Janine M. Susan, Reg. No. 46,119

Attorney(s) for Applicants

MINTZ, LEVIN, COHN, FERRIS,

GLOVSKY and POPEO, P.C.

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Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed on the attached modified Form PTO-1449.

This Information Disclosure Statement is being submitted within three months of filing the application. Accordingly, no fee or certification is believed required. Copies of the references (\*) are not provided as they were previously cited or submitted to the USPTO in prior applications, Serial No. 09/290,049, filed April 12, 1999 and Serial No. 10/383,930, filed March 7, 2003, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and sign the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

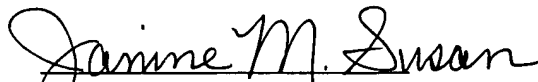
By submitting this Information Disclosure Statement, the Applicants make no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

APPLICANT: Smith, et al.  
U.S.S.N.: 10/797,302

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested.

Please charge any fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 25669-019.

Respectfully submitted,



Ingrid A. Beattie, Reg. No. 42,306

Janine M. Susan, Reg. No. 46,119

Attorney(s) for Applicants

MINTZ, LEVIN, COHN, FERRIS,  
GLOVSKY and POPEO, P.C.

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<b>Modified Form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)	<b>Application Number</b>	10/797,302
	<b>Filing Date</b>	March 9, 2004
	<b>First Named Inventor</b>	Smith
	<b>Group Art Unit</b>	Not Yet Assigned
	<b>Examiner Name</b>	Not Yet Assigned
	<b>Attorney Docket Number</b>	25669-019

## U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate
	A1*	4,150,116	04/17/79	Taubman, et al.	424	88	
	A2*	4,250,262	02/10/81	Taubman, et al.	435	193	
	A3*	4,438,200	03/20/84	Taubman, et al.	435	193	
	A4*	5,223,409	06/29/93	Ladner, et al.	435	69.7	
	A5*	5,686,075	11/11/97	Taubman, et al.	424	197.11	

## FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No
	B1*	WO	90/02809	PROTEIN ENGINEERING CORPORATION	03/22/90		
	B2*	WO	91/17271	AFFYMAX TECHNOLOGIES N.V.	11/14/91		
	B3*	WO	92/01047	CAMBRIDGE ANTIBODY TECHNOLOGY LIMITED	01/23/92		
	B4*	WO	92/09690	GENENTECH, INC.	06/11/92		
	B5*	WO	92/15679	PROTEIN ENGINEERING CORPORATION	09/17/92		
	B6*	WO	92/18619	THE SCRIPPS RESEARCH INSTITUTE	10/29/92		
	B7*	WO	92/20791	CAMBRIDGE ANTIBODY TECHNOLOGY LIMITED	11/26/92		
	B8*	WO	93/01288	DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES ÖFFENTLICHEN RECHTS	01/21/93	Abstract only	
	B9*	WO	99/07828		02/18/99		

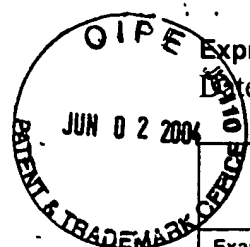
## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C1*	Banas, et al., <i>Infect. Immun.</i> , 58(3):667-673 (1990).
	C2*	Banas, et al., <i>FEMS Microbiol. Lett.</i> , 154:289-292 (1997).
	C3*	Chia, et al., <i>Infect. Immun.</i> , 61(11):4689-4695 (1993).
	C4*	Chia, et al., <i>Infect. Immun.</i> , 69(4):2493-2501 (2001).
	C5*	Cole, et al., <i>Monoclonal Antibodies and Cancer Therapy</i> , pgs. 77-96 (1985).

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## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

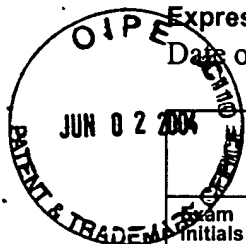
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C6*	Dertzbaugh, et al., <i>Infect. Immun.</i> , 58(6):1509-1513 (1990).
	C7*	Dertzbaugh, et al., <i>Infect. Immun.</i> , 58(1):70-79 (1990).
	C8*	Devulapalle, et al., <i>Protein Sci.</i> , 6:2489-2493 (1997).
	C9*	Ferretti, et al., <i>J. Bacteriol.</i> , 169(9):4271-4278 (1987).
	C10*	Ferretti, et al., <i>Infect. Immun.</i> , 56(6):1585-1588 (1988).
	C11*	Fuchs, et al., <i>Biotechnology</i> , 9:1369-1372 (1991).
	C12*	Funane, et al., <i>Biochem.</i> , 32:13696-13702 (1993).
	C13*	Furst, et al., <i>Nucleic Acids Res.</i> , 17(16):6724 (1989).
	C14*	Galfre, et al., <i>Nature</i> , 266(5602):550-552 (1977).
	C15*	GenBank Accession number AY046410 (2001).
	C16*	GenBank Accession number AY046411 (2001).
	C17*	GenBank Accession number AY046412 (2001).
	C18*	GenBank Accession number AY046413 (2001).
	C19*	GenBank Accession number AY046414 (2001).
	C20*	Griffiths, et al., <i>EMBO J.</i> , 12(2):725-734 (1993).
	C21*	Hamada, et al., <i>Microbiol. Rev.</i> , 44(2):331-384 (1980).
	C22*	Hay, et al., <i>Hum. Antibod. Hybridomas</i> , 3:81-85 (1992).
	C23*	Higgins, et al., <i>CABIOS Communications</i> , 5(2):151-153 (1989).
	C24*	Hopp, et al., <i>Proc. Natl. Acad. Sci. USA</i> , 78(6):3824-3828 (1981).
	C25*	Huse, et al., <i>Science</i> , 246:1275-1281 (1989).
	C26*	Jenkins, et al., <i>FEBS Lett.</i> , 362:281-285 (1995).
	C27*	Jespergaard, et al., <i>Infect. Immun.</i> , 67(2):810-816 (1999).
	C28*	Jespergaard, et al., <i>Infect. Immun.</i> , 67(12):6543-6549 (1999).
	C29*	Keyes, et al., <i>Arch. Oral Biol.</i> , 9:377-400 (1964).
	C30*	Köhler, et al., <i>Nature</i> , 266(5602):495-497 (1975).
	C31*	Kolenbrander, P.E., <i>Annu. Rev. Microbiol.</i> , 54:413-437 (2000).
	C32*	Kuramitsu, et al., <i>Archs. Oral Biol.</i> , 23(8):691-696 (1978).
	C33*	Lerner, E.A., <i>Yale J. Biol. Med.</i> , 54(5):387-402 (1981).
	C34*	Loo, et al., <i>J. Bacteriol.</i> , 182(5):1374-1382 (2000).
	C35*	Ma, et al., <i>Eur. J. Immunol.</i> , 24:131-138 (1994).
	C36*	MacGregor, et al., <i>FEBS Lett.</i> , 378:263-266 (1996).
	C37*	Matsuura, et al., <i>J. Biochem.</i> , 95:697-702 (1984).
	C38*	Mattos-Graner, et al., <i>J. Dent. Res.</i> , 79(6):1371-1377 (2000).
	C39*	Mattos-Graner, et al., <i>Infect. Immun.</i> , 69(11):6931-6941 (2001).
	C40*	Merrifield, R.B., <i>Synthesis of a Tetrapeptide</i> , 85:2149-2154 (1963).
	C41*	Mooser, et al., <i>J. Dental Res.</i> , Abstract 1729, 69:325 (1990).
	C42*	Mooser, et al., <i>J. Biol. Chem.</i> , 266(14):8916-8922 (1991).
	C43*	Navarre, et al., <i>Mol. Microbiol.</i> , 14(1):115-121 (1994).
	C44*	Reinscheid, et al., <i>J. Bacteriol.</i> , 183(40):1175-1183 (2001).
	C45*	Russell, R.R.B., <i>J. Gen. Microbiol.</i> , 112:197-201 (1979).



## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C46*	Russell, et al., <i>J. Dental Res.</i> , 67(3):543-547 (1988).
	C47*	Sato, et al., <i>Infect. Immun.</i> , 65(2):668-675 (1997).
	C48*	Schubert, et al., <i>Arch. Microbiol.</i> , 173(1):21-28 (2000).
	C49*	Shimamura, et al., <i>J. Bacteriol.</i> , 176(16):4845-4850 (1994).
	C50*	Shiroza, et al., <i>J. Bacteriol.</i> , 169:4263-4270 (1987).
	C51*	Smith, et al., <i>Infect. Immun.</i> , 21(3):843-851 (1978).
	C52*	Smith, et al., <i>Infect. Immun.</i> , 23(2):446-452 (1979).
	C53*	Smith, et al., <i>Infect. Immun.</i> , 26(1):82-89 (1979).
	C54*	Smith, et al., <i>Infect. Immun.</i> , 28(2):441-450 (1980).
	C55*	Smith, et al., <i>Archs. Oral Biol.</i> , 26:871-878 (1981).
	C56*	Smith, et al., <i>Infect. Immun.</i> , 37(2):656-661 (1982).
	C57*	Smith, et al., <i>Infect. Immun.</i> , 42(1):156-162 (1983).
	C58*	Smith, et al., <i>Infect. Immun.</i> , 55(11):2562-2569 (1987).
	C59*	Smith, et al., <i>Oral Microbiol. Immun.</i> , 5(2):57-62 (1990).
	C60*	Smith, et al., <i>J. Clin. Immunol.</i> , 10(5):273-281 (1990).
	C61*	Smith, et al., <i>Infect. Immun.</i> , 61(7):2899-2905 (1993).
	C62*	Smith, et al., <i>Oral Microbiol. Immun.</i> , 13(5):278-285 (1998).
	C63*	Smith, et al., <i>Infect. Immun.</i> , 62(6):2545-2552 (1994).
	C64*	Smith, et al., <i>Infect. Immun.</i> , 62(12):5470-5476 (1994).
	C65*	Smith, et al., <i>Oral Micro Immunol.</i> , 9:65-69 (1994).
	C66*	Smith, et al., <i>J. Dental Res.</i> , <b>Abstract 818</b> , 77:734 (1998).
	C67*	Smith, et al., <i>Infect. Immun.</i> , 67(5):2638-2642 (1999).
	C68*	Smith, et al., <i>J. Dental Res.</i> , 78:422 (1999).
	C69*	Smith, et al., <i>Oral Microbiol. Immunol.</i> , 15:124-130 (2000).
	C70*	Smith, et al., <i>Infect. Immun.</i> , 69(5):3135-3142 (2001).
	C71*	Smith, et al., <i>Infect. Immun.</i> , 69(8):4767-4773 (2001).
	C72*	Smith, et al., <i>Infect. Immun.</i> , 64(8):3069-3073 (1996).
	C73*	Smith, et al., <i>Infect. Immun.</i> , 65(11):4424-4430 (1997).
	C74*	Socransky, et al., <i>J. Clin. Microbiol.</i> , 22(2):303-305 (1985).
	C75*	Søgaard, et al., <i>J. Biol. Chem.</i> , 268(30):22480-22484 (1993).
	C76*	Svendsen, et al., <i>Lab. Anim. Sci.</i> , 45(1):89-93 (1995).
	C77*	Tam, J.P., <i>Proc. Natl. Acad. Sci. USA</i> , 85(15):5409-5413 (1988).
	C78*	Taubman, et al., <i>J. Immunol.</i> , 118(2):710-720 (1977).
	C79*	Taubman, et al., <i>Recent Advances in Mucosal Immunity</i> , W. Strober, et al., eds. (NY Raven Press) pp. 371-382 (1982).
	C80*	Taubman, et al., <i>Glucosyltransferase, Glucans, Sucrose and Dental Caries</i> , Doyle, et al., eds., Sp. Supp., <i>Chemical Senses</i> , pp. 249-258 (1983).
	C81*	Taubman, et al., <i>J. Oral Pathol.</i> , 17:466-470 (1988).
	C82*	Taubman, et al., <i>Infect. Immun.</i> , 63(8):3088-3093 (1995).
	C83*	Taubman, et al., <i>J. Dent. Res.</i> , <b>Abstract 2666</b> , 76:347 (1997).
	C84*	Taubman, et al., <i>Infect. Immun.</i> , 68(5):2698-2703 (2000).

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## OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	C85*	Taubman, et al., <i>Infect. Immun.</i> , 69:4210-4216 (2001).
	C86*	Tsumori, et al., <i>J. Bacteriol.</i> , 179(11):3391-3396 (1997).
	C87*	Ueda, et al., <i>Gene</i> , 69:101-109 (1988).
	C88*	U.S. non-published pending Patent Application No. 09/562,328 by Andrew Lees, Martin A. Taubman and Daniel J. Smith, filed May 1, 2000.
	C89*	U.S. Application No. 08/967,573 by Daniel J. Smith and Martin A. Taubman, filed November 10, 1997.
	C90*	Van Houte, et al., <i>J. Dent. Res.</i> , 68(3):451-459 (1989).

\* a copy of this reference is not provided as it was previously cited by or submitted to the office in the prior applications, Serial No. 09/290,049, filed April 12, 1999 , and Serial No. 10/383,930, filed March 7, 2003, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	
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